

Safety Data Sheet according to Regulation (EU) No. 1907/2006

FROWEIN GmbH & Co. KG

Revision date : 17.04.2008

Revision no. : 1,02

DETMOL-PRO

00434-0035

1. Identification of the substance/preparation and of the company/undertaking**Identification of the substance or preparation**

DETMOL-PRO

Use of the substance/preparation

Pesticide

Company/undertaking identification

FROWEIN GmbH & Co. KG

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Contact person

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2. Hazards identification**Classification**

Indications of danger : Dangerous for the environment

R-phrases :

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients**Chemical characterization** (preparation)

Insecticide capsular suspension concentrate

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
220-864-4	2921-88-2	Chlorpyrifos (ISO)	20 %	T, N R25-50-53

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures**General information**

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

Take away from danger area and lay down affected person.

In case of the person being unconscious put him/her in a stable side position.

After inhalation

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

In the event of symptoms refer for medical treatment.

After contact with skin

Wash off immediately with soap and plenty of water.

Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting.

Rinse mouth.

Seek medical treatment immediately.

Induce vomiting only upon the advice of a physician.

Advice to doctor

Contains Cholinesterase-Inhibitors

Give Atropine as antidote

5. Fire-fighting measures

Suitable extinguishing media

Foam, carbon dioxide (CO₂), dry chemical, water-spray., Sand

Extinguishing media which must not be used for safety reasons

Full water jet

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Fire may produce:

Carbon monoxide, carbon dioxide, sulphur oxides, nitrogen oxides (NO_x), hydrochloric acid gas and phosphorus pentaoxide.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Cool containers at risk with water spray jet.

Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions

Ensure adequate ventilation.

Use personal protective clothing.

Avoid contact with skin, eyes and clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

Additional information

Clean contaminated surface thoroughly.

7. Handling and storage

Handling

Advice on safe handling

Do not breathe vapours or spray mist.

Keep container tightly closed.

Avoid contact with skin, eyes and clothing.

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Advice on protection against fire and explosion

No special protective measures against fire required.

Storage**Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

Storage temperature between 0°C to 30°C (=32°F to 86°F).

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Storageclass (VCI)

10

8. Exposure controls/personal protection**Exposure limit values****Exposure limits (EH40)**

CAS-No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
2921-88-2	Chlorpyrifos (ISO)	-	0.2		TWA (8 h)	WEL
	Chlorpyrifos (ISO)	-	0.6		STEL (15 min)	WEL

Exposure controls**Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not breathe vapours or spray mist.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Avoid contact with skin, eyes and clothing.

Respiratory protection

Use protective face mask with A1-P3 (40 ASt) filter when spraying.

Hand protection

Use multipurpose protective gloves (plant protection) when spreading/handling the product.

Eye protection

Tightly fitting goggles

Skin protection

Wear standard protective suit (plant protection) when spreading/handling the product.

9. Physical and chemical properties**General information**

Physical state	Liquid
Colour	White to light yellow
Odour	Soft

Important health, safety and environmental information

Test method

Changes in the physical state

Flash point n.a.

Flammability

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Lower explosion limits	n.a.
Upper explosion limits	
Ignition temperature	n.a.
Density (at 20 °C) :	1,03 g/cm ³
Water solubility : at (20 °C)	Dispersible

10. Stability and reactivity**Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Materials to avoid

Oxidizing agents., Acids and bases

Hazardous decomposition products

Carbon monoxide, carbon dioxide, sulphur oxides, nitrogen oxides (NOX), hydrochloric acid gas and phosphorus pentaoxide.

Additional information

No decomposition if stored and applied as directed.

11. Toxicological information**Acute toxicity**

LD50/oral/rat:: > 5000 mg/kg (*)

LD50/dermal/rat:: > 5000 mg/kg (*)

(*) The toxicological data has been taken from products of similar composition.

12. Ecological information**Ecotoxicity**

LC50/Fish = 1 - 10 mg/l

LD50/bird: > 2000 mg/kg

Further information

Do not flush into surface water or sanitary sewer system.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Highly water contaminating.

13. Disposal considerations**Advice on disposal**

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

Waste disposal number of waste from residues/unused products

200119 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS;
separately collected fractions (except 15 01); pesticides
Classified as hazardous waste.

Waste disposal number of contaminated packaging

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150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Re-using the polluted packaging materials is not allowed.

Contaminated packagings are to be treated like the product itself.

14. Transport information**Land transport (ADR/RID)**

ADR/RID class	9
Classification code :	M&
Hazard-no.	90
UN number	3082
Hazard label	9
ADR/RID packing group	III
Limited quantity :	LQ 7

Description of the goods

Environmentally hazardous substance, liquid, n.o.s. (Chlorpyrifos (ISO))

Remarks (land transport)

LQ 7: combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Inland waterways transport**Marine transport**

IMDG code	9
UN number	3082
Marine pollutant	P
EmS	F-A; S-F
Limited quantity :	5 L / 30 kg
IMDG packing group	III
Hazard label	9 + MP

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorpyrifos)

Remarks (marine transport)

Limited quantities (section 3.4): combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Air transport

ICAO/IATA-DGR	9
UN/ID number	3082
Hazard label	9
IATA-packing instructions - Passenger	914
IATA-max. quantity - Passenger	450 L
IATA-packing instructions - Cargo	914
IATA-max. quantity - Cargo	450 L
ICAO packing group	III
Limited quantity Passenger	Y914 / 30 kg G

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Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorpyrifos)

15. Regulatory information**Labelling**

Indication of danger

N - Dangerous for the environment

Additional advice on labelling

According to EC-regulations the product is to be labelled as follows:
Labelling on the basis of toxicological data (pls. see item 11) and using the
conventional method (assessment procedure)

Hazardous component(s) to be indicated on label

Chlorpyrifos (ISO)

R phrases

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
environment.

S phrases

02 Keep out of the reach of children.
13 Keep away from food, drink and animal feedingstuffs.
23 Do not breathe spray .
38 In case of insufficient ventilation, wear suitable respiratory equipment.
60 This material and its container must be disposed of as hazardous waste.
61 Avoid release to the environment. Refer to special instructions / Safety data sheets.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

National regulatory information

Water contaminating class

3 - highly water contaminating

1999/13/EC (VOC)

0 %

16. Other information**Full text of R-phrases referred to under sections 2 and 3**

25 Toxic if swallowed.
50 Very toxic to aquatic organisms.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
environment.
53 May cause long-term adverse effects in the aquatic environment.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the
product (in this sense consult information on use and on product), but to liberation of major amounts in
case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the
present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal
warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

*(The data for the hazardous ingredients were taken respectively from the last version of the
sub-contractor's safety data sheet.)*